

P#6



2121

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RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/938,275

DATE: 03/04/2002
TIME: 14:49:18

Input Set : A:\P03rSID.txt
Output Set: N:\CRF3\03042002\I938275.raw

4 <110> APPLICANT: Gerardo Castillo
 5 Alan Snow
 7 <120> TITLE OF INVENTION: Therapeutic and Diagnostic Applications
 8 of Laminin and Laminin-Derived Protein Fragments
 11 <130> FILE REFERENCE: PROTEO.P03
 13 <140> CURRENT APPLICATION NUMBER: 09/938,275
 C--> 14 <141> CURRENT FILING DATE: 2001-08-16
 16 <160> NUMBER OF SEQ ID NOS: 11
 18 <170> SOFTWARE: FastSEQ for Windows Version 4.0
 20 <210> SEQ ID NO: 1
 21 <211> LENGTH: 11
 22 <212> TYPE: PRT
 23 <213> ORGANISM: Mus Musculus
 25 <300> PUBLICATION INFORMATION:
 26 <308> DATABASE ACCESSION NO: Swissprot P19137
 27 <309> DATABASE ENTRY DATE: 1990-11-01
 29 <400> SEQUENCE: 1
 30 Leu His Arg Glu His Gly Glu Leu Pro Pro Glu
 31 1 5 10
 34 <210> SEQ ID NO: 2
 35 <211> LENGTH: 177
 36 <212> TYPE: PRT
 37 <213> ORGANISM: Mus Musculus
 39 <300> PUBLICATION INFORMATION:
 40 <308> DATABASE ACCESSION NO: Swissprot P19137
 41 <309> DATABASE ENTRY DATE: 1990-11-01
 43 <400> SEQUENCE: 2
 44 Leu Gln Val Gln Leu Ser Ile Arg Thr Phe Ala Ser Ser Gly Leu Ile
 45 1 5 10 15
 46 Tyr Tyr Val Ala His Gln Asn Gln Met Asp Tyr Ala Thr Leu Gln Leu
 47 20 25 30
 48 Gln Glu Gly Arg Leu His Phe Met Phe Asp Leu Gly Lys Gly Arg Thr
 49 35 40 45
 50 Lys Val Ser His Pro Ala Leu Leu Ser Asp Gly Lys Trp His Thr Val
 51 50 55 60
 52 Lys Thr Glu Tyr Ile Lys Arg Lys Ala Phe Met Thr Val Asp Gly Gln
 53 65 70 75 80
 54 Glu Ser Pro Ser Val Thr Val Val Gly Asn Ala Thr Thr Leu Asp Val
 55 85 90 95
 56 Glu Arg Lys Leu Tyr Leu Gly Gly Leu Pro Ser His Tyr Arg Ala Arg
 57 100 105 110
 58 Asn Ile Gly Thr Ile Thr His Ser Ile Pro Ala Cys Ile Gly Glu Ile
 59 115 120 125

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60 Met Val Asn Gly Gln Gln Leu Asp Lys Asp Arg Pro Leu Ser Ala Ser
61 130 135 140
62 Ala Val Asp Arg Cys Tyr Val Val Ala Gln Glu Gly Thr Phe Phe Glu
63 145 150 155 160
64 Gly Ser Gly Tyr Ala Ala Leu Val Lys Glu Gly Tyr Lys Val Arg Leu
65 165 170 175
66 Asp
70 <210> SEQ ID NO: 3
71 <211> LENGTH: 177
72 <212> TYPE: PRT
73 <213> ORGANISM: Homo Sapiens
75 <300> PUBLICATION INFORMATION:
76 <308> DATABASE ACCESSION NO: Swissprot P25391
77 <309> DATABASE ENTRY DATE: 1992-05-01
79 <400> SEQUENCE: 3
80 Leu Ser Val Glu Leu Ser Ile Arg Thr Phe Ala Ser Ser Gly Leu Ile
81 1 5 10 15
82 Tyr Tyr Met Ala His Gln Asn Gln Ala Asp Tyr Ala Val Leu Gln Leu
83 20 25 30
84 His Gly Gly Arg Leu His Phe Met Phe Asp Leu Gly Lys Gly Arg Thr
85 35 40 45
86 Lys Val Ser His Pro Ala Leu Leu Ser Asp Gly Lys Trp His Thr Val
87 50 55 60
88 Lys Thr Asp Tyr Val Lys Arg Lys Gly Phe Ile Thr Val Asp Gly Arg
89 65 70 75 80
90 Glu Ser Pro Met Val Thr Val Val Gly Asp Gly Thr Met Leu Asp Val
91 85 90 95
92 Glu Gly Leu Phe Tyr Leu Gly Gly Leu Pro Ser Gln Tyr Gln Ala Arg
93 100 105 110
94 Lys Ile Gly Asn Ile Thr His Ser Ile Pro Ala Cys Ile Gly Asp Val
95 115 120 125
96 Thr Val Asn Ser Lys Gln Leu Asp Lys Asp Ser Pro Val Ser Ala Phe
97 130 135 140
98 Thr Val Asn Arg Cys Tyr Ala Val Ala Gln Glu Gly Thr Tyr Phe Asp
99 145 150 155 160
100 Gly Ser Gly Tyr Ala Ala Leu Val Lys Glu Gly Tyr Lys Val Gln Ser
101 165 170 175
102 Asp
106 <210> SEQ ID NO: 4
107 <211> LENGTH: 3084
108 <212> TYPE: PRT
109 <213> ORGANISM: Mus Musculus
111 <300> PUBLICATION INFORMATION:
112 <308> DATABASE ACCESSION NO: Swissprot P19137
113 <309> DATABASE ENTRY DATE: 1990-11-01
115 <400> SEQUENCE: 4
116 Met Arg Gly Ser Gly Thr Gly Ala Ala Leu Leu Val Leu Leu Ala Ser
117 1 5 10 15
118 Val Leu Trp Val Thr Val Arg Ser Gln Gln Arg Gly Leu Phe Pro Ala

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119	20	25	30	
120	Ile Leu Asn Leu Ala Thr Asn Ala His Ile Ser Ala Asn Ala Thr Cys			
121	35	40	45	
122	Gly Glu Lys Gly Pro Glu Met Phe Cys Lys Leu Val Glu His Val Pro			
123	50	55	60	
124	Gly Arg Pro Val Arg His Ala Gln Cys Arg Val Cys Asp Gly Asn Ser			
125	65	70	75	80
126	Thr Asn Pro Arg Glu Arg His Pro Ile Ser His Ala Ile Asp Gly Thr			
127	85	90	95	
128	Asn Asn Trp Trp Gln Ser Pro Ser Ile Gln Asn Gly Arg Glu Tyr His			
129	100	105	110	
130	Trp Val Thr Val Thr Leu Asp Leu Arg Gln Val Phe Gln Val Ala Tyr			
131	115	120	125	
132	Ile Ile Ile Lys Ala Ala Asn Ala Pro Arg Pro Gly Asn Trp Ile Leu			
133	130	135	140	
134	Glu Arg Ser Val Asp Gly Val Lys Phe Lys Pro Trp Gln Tyr Tyr Ala			
135	145	150	155	160
136	Val Ser Asp Thr Glu Cys Leu Thr Arg Tyr Lys Ile Thr Pro Arg Arg			
137	165	170	175	
138	Gly Pro Pro Thr Tyr Arg Ala Asp Asn Glu Val Ile Cys Thr Ser Tyr			
139	180	185	190	
140	Tyr Ser Lys Leu Val Pro Leu Glu His Gly Glu Ile His Thr Ser Leu			
141	195	200	205	
142	Ile Asn Gly Arg Pro Ser Ala Asp Asp Pro Ser Pro Gln Leu Leu Glu			
143	210	215	220	
144	Phe Thr Ser Ala Arg Tyr Ile Arg Leu Arg Leu Gln Arg Ile Arg Thr			
145	225	230	235	240
146	Leu Asn Ala Asp Leu Met Thr Leu Ser His Arg Asp Leu Arg Asp Leu			
147	245	250	255	
148	Asp Pro Ile Val Thr Arg Arg Tyr Tyr Ser Ile Lys Asp Ile Ser			
149	260	265	270	
150	Val Gly Gly Met Cys Ile Cys Tyr Gly His Ala Ser Ser Cys Pro Trp			
151	275	280	285	
152	Asp Glu Glu Ala Lys Gln Leu Gln Cys Gln Cys Glu His Asn Thr Cys			
153	290	295	300	
154	Gly Glu Ser Cys Asp Arg Cys Cys Pro Gly Tyr His Gln Gln Pro Trp			
155	305	310	315	320
156	Arg Pro Gly Thr Ile Ser Ser Gly Asn Glu Cys Glu Glu Cys Asn Cys			
157	325	330	335	
158	His Asn Lys Ala Lys Asp Cys Tyr Tyr Asp Ser Ser Val Ala Lys Glu			
159	340	345	350	
160	Arg Arg Ser Leu Asn Thr Ala Gly Gln Tyr Ser Gly Gly Val Cys			
161	355	360	365	
162	Val Asn Cys Ser Gln Asn Thr Thr Gly Ile Asn Cys Glu Thr Cys Ile			
163	370	375	380	
164	Asp Gln Tyr Tyr Arg Pro His Lys Val Ser Pro Tyr Asp Asp His Pro			
165	385	390	395	400
166	Cys Arg Pro Cys Asn Cys Asp Pro Val Gly Ser Leu Ser Ser Val Cys			
167	405	410	415	

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168 Ile Lys Asp Asp Arg His Ala Asp Leu Ala Asn Gly Lys Trp Pro Gly
169 420 425 430
170 Gln Cys Pro Cys Arg Lys Gly Tyr Ala Gly Asp Lys Cys Asp Arg Cys
171 435 440 445
172 Gln Phe Gly Tyr Arg Gly Phe Pro Asn Cys Ile Pro Cys Asp Cys Arg
173 450 455 460
174 Thr Val Gly Ser Leu Asn Glu Asp Pro Cys Ile Glu Pro Cys Leu Cys
175 465 470 475 480
176 Lys Lys Asn Val Glu Gly Lys Asn Cys Asp Arg Cys Lys Pro Gly Phe
177 485 490 495
178 Tyr Asn Leu Lys Glu Arg Asn Pro Glu Gly Cys Ser Glu Cys Phe Cys
179 500 505 510
180 Phe Gly Val Ser Gly Val Cys Asp Ser Leu Thr Trp Ser Ile Ser Gln
181 515 520 525
182 Val Thr Asn Met Ser Gly Trp Leu Val Thr Asp Leu Met Ser Thr Asn
183 530 535 540
184 Lys Ile Arg Ser Gln Gln Asp Val Leu Gly Gly His Arg Gln Ile Ser
185 545 550 555 560
186 Ile Asn Asn Thr Ala Val Met Gln Arg Leu Thr Ser Thr Tyr Tyr Trp
187 565 570 575
188 Ala Ala Pro Glu Ala Tyr Leu Gly Asn Lys Leu Thr Ala Phe Gly Gly
189 580 585 590
190 Phe Leu Lys Tyr Thr Val Ser Tyr Asp Ile Pro Val Glu Thr Val Asp
191 595 600 605
192 Ser Asp Leu Met Ser His Ala Asp Ile Ile Ile Lys Gly Asn Gly Leu
193 610 615 620
194 Thr Ile Ser Thr Arg Ala Glu Gly Leu Ser Leu Gln Pro Tyr Glu Glu
195 625 630 635 640
196 Tyr Phe Asn Val Val Arg Leu Val Pro Glu Asn Phe Arg Asp Phe Asn
197 645 650 655
198 Thr Arg Arg Glu Ile Asp Arg Asp Gln Leu Met Thr Val Leu Ala Asn
199 660 665 670
200 Val Thr His Leu Leu Ile Arg Ala Asn Tyr Asn Ser Ala Lys Met Ala
201 675 680 685
202 Leu Tyr Arg Leu Asp Ser Val Ser Leu Asp Ile Ala Ser Pro Asn Ala
203 690 695 700
204 Ile Asp Leu Ala Val Ala Asp Val Glu His Cys Glu Cys Pro Gln
205 705 710 715 720
206 Gly Tyr Thr Gly Thr Ser Cys Glu Ala Cys Leu Pro Gly Tyr Tyr Arg
207 725 730 735
208 Val Asp Gly Ile Leu Phe Gly Gly Ile Cys Gln Pro Cys Glu Cys His
209 740 745 750
210 Gly His Ala Ser Glu Cys Asp Ile His Gly Ile Cys Ser Val Cys Thr
211 755 760 765
212 His Asn Thr Thr Gly Asp His Cys Glu Gln Cys Leu Pro Gly Phe Tyr
213 770 775 780
214 Gly Thr Pro Ser Arg Gly Thr Pro Gly Asp Cys Gln Pro Cys Ala Cys
215 785 790 795 800
216 Pro Leu Ser Ile Asp Ser Asn Asn Phe Ser Pro Thr Cys His Leu Thr

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217	805	810	815
218	Asp Gly Glu Glu Val Val Cys Asp Gln Cys Ala Pro Gly Tyr Ser Gly		
219	820	825	830
220	Ser Trp Cys Glu Arg Cys Ala Asp Gly Tyr Tyr Gly Asn Pro Thr Val		
221	835	840	845
222	Pro Gly Gly Thr Cys Val Pro Cys Asn Cys Ser Gly Asn Val Asp Pro		
223	850	855	860
224	Leu Glu Ala Gly His Cys Asp Ser Val Thr Gly Glu Cys Leu Lys Cys		
225	865	870	875
226	880	885	895
227	Leu Trp Asn Thr Asp Gly Ala His Cys Glu Arg Cys Ala Asp Gly Phe		
228	900	905	910
229	Tyr Gly Asp Ala Val Thr Ala Lys Asn Cys Arg Ala Cys Asp Cys His		
230	915	920	925
231	Glu Asn Gly Ser Leu Ser Gly Val Cys His Leu Glu Thr Gly Leu Cys		
232	930	935	940
233	Asp Cys Lys Pro His Val Thr Gly Gln Gln Cys Asp Gln Cys Leu Ser		
234	945	950	955
235	Gly Tyr Tyr Gly Leu Asp Thr Gly Leu Gly Cys Val Pro Cys Asn Cys		
236	965	970	975
237	Ser Val Glu Gly Ser Val Ser Asp Asn Cys Thr Glu Glu Gly Gln Cys		
238	980	985	990
239	His Cys Gly Pro Gly Val Ser Gly Lys Gln Cys Asp Arg Cys Ser His		
240	995	1000	1005
241	Gly Phe Tyr Ala Phe Gln Asp Gly Gly Cys Thr Pro Cys Asp Cys Ala		
242	1010	1015	1020
243	His Thr Gln Asn Asn Cys Asp Pro Ala Ser Gly Glu Cys Leu Cys Pro		
244	1025	1030	1035
245	Pro His Thr Gln Gly Leu Lys Cys Glu Glu Cys Glu Glu Ala Tyr Trp		
246	1045	1050	1055
247	Gly Leu Asp Pro Glu Gln Gly Cys Gln Ala Cys Asn Cys Ser Ala Val		
248	1060	1065	1070
249	Gly Ser Thr Ser Ala Gln Cys Asp Val Leu Ser Gly His Cys Pro Cys		
250	1075	1080	1085
251	Lys Lys Gly Phe Gly Gly Gln Ser Cys His Gln Cys Ser Leu Gly Tyr		
252	1090	1095	1100
253	Arg Ser Phe Pro Asp Cys Val Pro Cys Gly Cys Asp Leu Arg Gly Thr		
254	1105	1110	1115
255	Leu Pro Asp Thr Cys Asp Leu Glu Gln Gly Leu Cys Ser Cys Ser Glu		
256	1125	1130	1135
257	Asp Ser Gly Thr Cys Ser Cys Lys Glu Asn Val Val Gly Pro Gln Cys		
258	1140	1145	1150
259	Ser Lys Cys Gln Ala Gly Thr Phe Ala Leu Arg Gly Asp Asn Pro Gln		
260	1155	1160	1165
261	Gly Cys Ser Pro Cys Phe Cys Phe Gly Leu Ser Gln Leu Cys Ser Glu		
262	1170	1175	1180
263	Leu Glu Gly Tyr Val Arg Thr Leu Ile Thr Leu Ala Ser Asp Gln Pro		
264	1185	1190	1195
265	Leu Leu His Val Val Ser Gln Ser Asn Leu Lys Gly Thr Ile Glu Gly		
			1200

VERIFICATION SUMMARY

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L:14 M:271 C: Current Filing Date differs, Replaced Current Filing Date